

Title (en)  
ELECTROENCEPHALOGRAPH ANALYSIS APPARATUS, ELECTROENCEPHALOGRAPH ANALYSIS SYSTEM, AND  
ELECTROENCEPHALOGRAPH ANALYSIS PROGRAM

Title (de)  
ELEKTROENZEPHALOGRAMMANALYSEGERÄT, ELEKTROENZEPHALOGRAMMANALYSESYSTEM UND  
ELEKTROENZEPHALOGRAMMANALYSEPROGRAMM

Title (fr)  
APPAREIL D'ANALYSE D'ÉLECTROENCÉPHALOGRAMME, SYSTÈME D'ANALYSE D'ÉLECTROENCÉPHALOGRAMME ET PROGRAMME  
D'ANALYSE D'ÉLECTROENCÉPHALOGRAMME

Publication  
**EP 3868288 A4 20220622 (EN)**

Application  
**EP 19874500 A 20191015**

Priority  
• JP 2018194497 A 20181015  
• JP 2019040463 W 20191015

Abstract (en)  
[origin: EP3868288A1] A brain wave analysis device 30 includes a computation section 301 configured to compute a first ratio and a second ratio from a spectrum obtained by performing frequency analysis on time-series data of brain waves measured at a predetermined location of a head of a subject. The first ratio is either a ratio, with respect to a feature value that is a strength of one wave in a first frequency band generated in a stress-induced state, of a feature value that is a strength of another wave in the first frequency band present in a frequency band higher than the one wave, or a ratio of a feature value that is a strength of a wave in the first frequency band with respect to a feature value that is a strength of a wave in a second frequency band generated in an awake state. The second ratio is a ratio of a feature value that is a strength of a wave in a third frequency band generated in a sleeping state with respect to a feature value that is a strength of a wave in the second frequency band generated in an awake state. The brain wave analysis device 30 also includes an inference section 302 configured to infer a state of the subject based on the first ratio, a first reference value set using the first ratio, the second ratio, and a second reference value set using the second ratio.

IPC 8 full level  
**A61B 5/16** (2006.01); **A61B 5/374** (2021.01)

CPC (source: EP US)  
**A61B 5/16** (2013.01 - EP); **A61B 5/369** (2021.01 - EP); **A61B 5/374** (2021.01 - EP US); **A61B 5/377** (2021.01 - EP); **A61B 5/383** (2021.01 - US); **A61B 5/4809** (2013.01 - US); **A61B 5/4824** (2013.01 - US); **A61B 5/7203** (2013.01 - US); **A61B 2560/02** (2013.01 - US)

Citation (search report)  
• [Y] US 2016022168 A1 20160128 - LUCZAK ARTUR [CA], et al  
• [Y] KR 20160034227 A 20160329 - UNIV SANGMYUNG SEOUL INDUSTRY ACADEMY COOPERATION FOUNDATION [KR]  
• [A] KR 20140104662 A 20140829 - MGAME CORP [KR]  
• See references of WO 2020080354A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3868288 A1 20210825; EP 3868288 A4 20220622**; CN 112888366 A 20210601; JP 7061687 B2 20220428; JP WO2020080354 A1 20211111; US 2021321929 A1 20211021; WO 2020080354 A1 20200423

DOCDB simple family (application)  
**EP 19874500 A 20191015**; CN 201980067324 A 20191015; JP 2019040463 W 20191015; JP 2020553193 A 20191015; US 201917285160 A 20191015